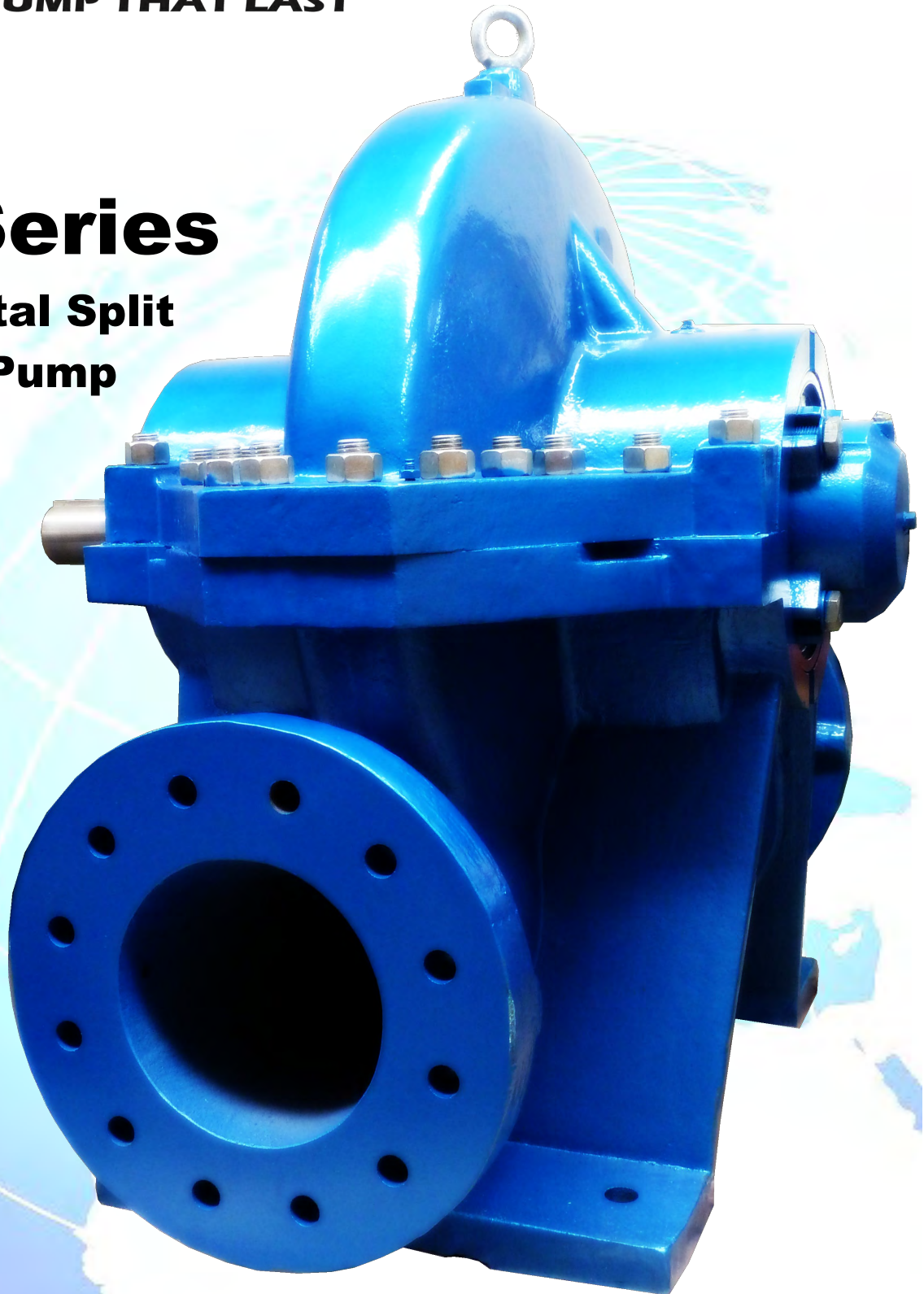




SC Series

**Horizontal Split
Casing Pump**



DURAFLO PUMP®

PERFORMANCE

Discharge diameter : 900 mm

Capacity range : up to 12,600 m³/h

Head range : up to 220m

Speed : 1450r/min & 2900r/min (50Hz), 60Hz speed can be operated

Working pressure : up to 3Mpa (depending on pump size/materials)

Working temperature: -10 °C ~ 105 °C (over the temperature please contact us)

MATERIAL

NAME	MATERIAL
Casing, Wear ring	Cast iron /Bronze
Impeller	Cast iron /Bronze, Stainless Steel
Volute	Cast iron, Ductile Cast iron, Cast Steel
Shaft Sleeve	Bronze / Stainless Steel
Pump Shaft	Carbon Steel , Stainless Steel

Notice: Other special material can be supplied upon request

APPLICATION

Waterworks, Irrigation, Drainage pumping stations, Power stations, Industrial water supply systems & fire fighting applications in refineries.

DESIGN CHARACTER

Horizontal split casing SC is designed with the most advanced hydraulic profiles. Providing less noise and vibration, wider operating range, lower NPSH required and higher efficiency.

STRUCTURE

short distance between bearings and correspondingly

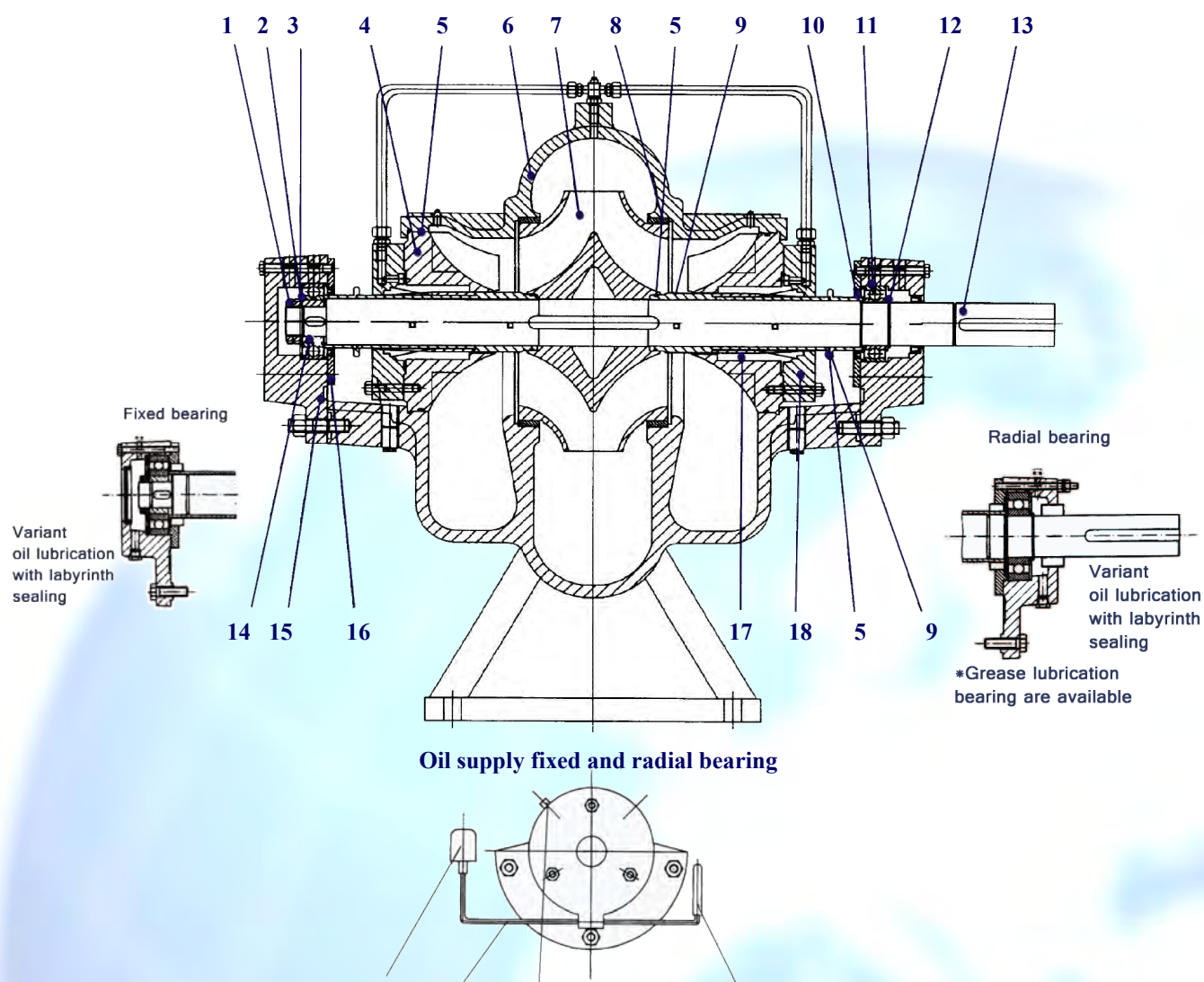
short shaft

- easy mounting-self-aligning upper casing
- minimal axial thrust due to double-entry impeller
- short and rigid with negligible vibrations
- replaceable shaft protecting sleeves
- quick and easy assembly/dismantling of the rotor

components due to elastically prestressed mountings

- covered, sealed for life grease lubricated anti friction bearings for a long service life

STRUCTURE DRAWING



1. Nut	2. Spring	3. Washer	4. Shaft seal housing	5. O-Ring
6. Volute casing	7. Impeller	8. Casing wear ring	9. Shaft protecting sleeve	10. Radial shaft seal ring
11. Deep groove ball bearing	12. Circlip	13. Pump shaft	14. Sleeve	15. Bearing housing
16. Bearing cover	17. Seal	18. Cover		

Notice: Special Heavy Duty Bearings can be supplied upon

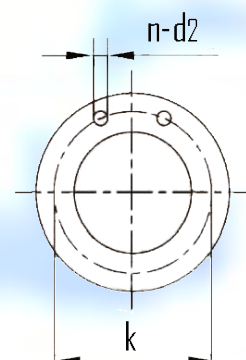
STANDARD FLANGE DESIGN

Pump Size	GG25 Nominal pressure acc. to:			GGG 40/GS-C25 Nominal pressure acc. to:									
	DIN2501 ISO 7005/2	BS4504	ANSIB 16.1	DIN2501 ISO 7005/2	BS4504	ANSIB 16.1							
125 - 80 - 210	PN16	Table 16/11	Class 250	PN25	Table 25/11	Class 250							
125 - 80 - 270													
125 - 80 - 370													
150 - 100 - 250	PN16	Table 16/11	Class 250	PN25	Table 25/11	Class 250							
150 - 100 - 310													
150 - 100 - 375													
200 - 125 - 230	PN16	Table 16/11	Class 250	PN25	Table 25/11	Class 250							
200 - 125 - 290													
200 - 125 - 365													
200 - 125 - 500													
200 - 150 - 290	PN16	Table 16/11	Class 250	PN25	Table 25/11	Class 250							
200 - 150 - 360													
200 - 150 - 460													
200 - 150 - 605	PN25	Table 25/11	Class 250	PN25	Table 25/11	Class 250							
250 - 200 - 320	PN16	Table 16/11											
250 - 200 - 420													
250 - 200 - 520													
250 - 200 - 670	PN25	Table 25/11											
300 - 250 - 370	PN10	Table 10/11	Class 125	PN25	Table 25/11	Class 250							
300 - 250 - 480	PN16	Table 16/11	Class 250										
300 - 250 - 600	PN25	Table 25/11											
300 - 250 - 700													
350 - 300 - 300	PN10	Table 10/11	Class 125	PN25	Table 25/11	Class 250							
400 - 300 - 435			Class 250										
400 - 300 - 560	PN16	Table 16/11											
400 - 300 - 700	PN25	Table 25/11											
400 - 300 - 800													
400 - 350 - 360	PN10	Table 10/11	Class 125	PN25	Table 25/11	Class 250							
450 - 350 - 430													
400 - 350 - 510													

Notice: Other special can be supplied upon request

FLANGE DIMENSIONS

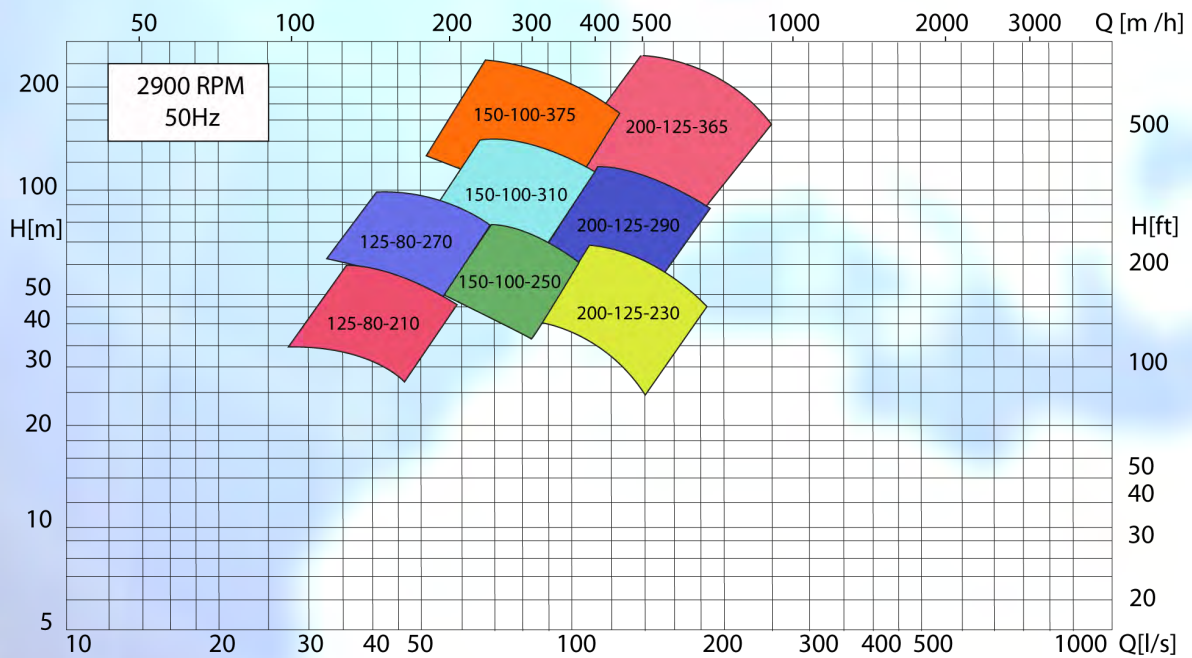
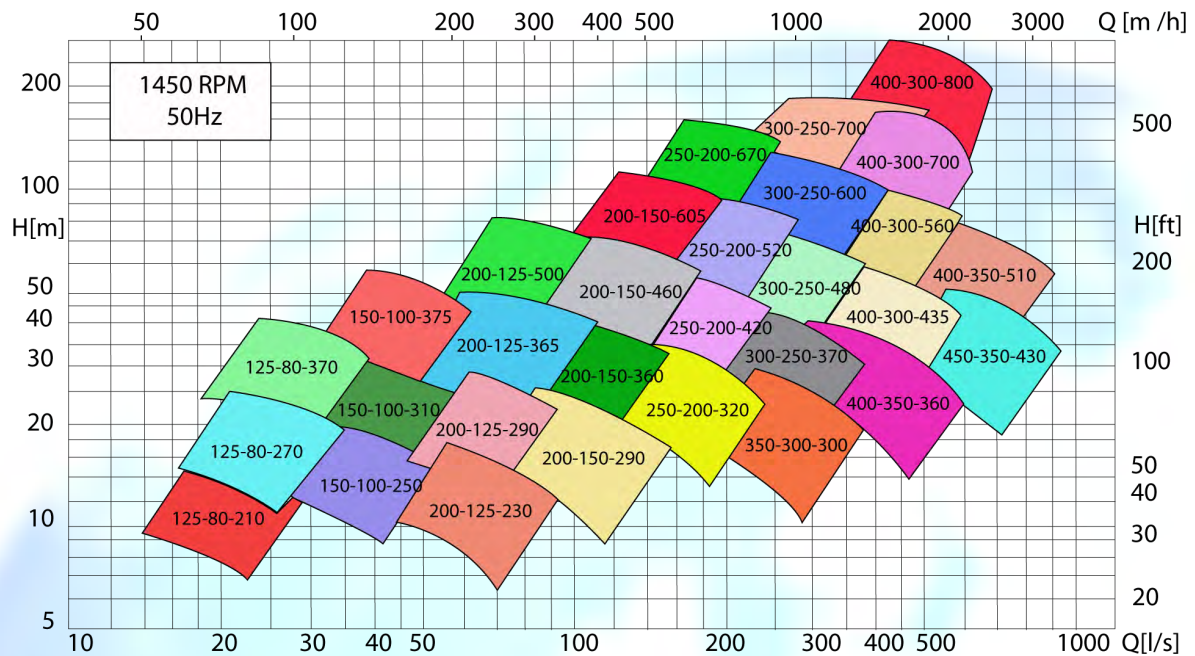
Standard		DN 80			DN100			DN125	
		d ₂	k	n	d ₂	k	n	d ₂	k
ISO 7005/2 DIN 2501	PN 16	19	160	8	19	180	8	19	210
ISO 7005/2 DIN 2501	PN 25	19	160	8	23	190	8	28	220
BS4504	Table 16/11	19	160	8	19	180	8	19	210



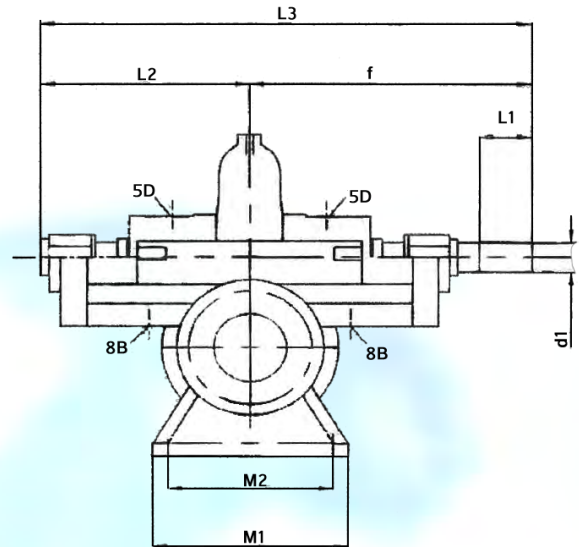
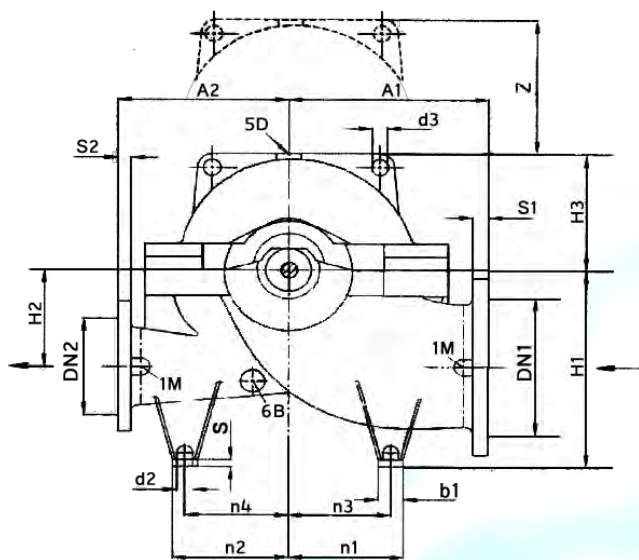
Dimension in mm

Standard		DN200			DN250			DN300			DN350			DN400			DN450		
		d ₂	k	n	d ₂	k	n	d ₂	k	n	d ₂	k	n	d ₂	k	n	d ₂	k	n
ISO 7005/2 DIN 2501	PN10	23	295	8	23	350	12	23	400	16	23	460	16	28	515	16	28	565	20
ISO 7005/2 DIN 2501	PN16	23	29	12	28	355	12	28	410	12	28	470	16	31	525	16	31	585	20
ISO 7005/2 DIN 2501	PN25	28	310	12	31	370	12	31	430	16	34	490	16	37	550	16			
BS4505	Table 10/11	23	295	8	23	350	12	23	400	12	23	460	16	28	515	16	28	565	20
BS4505	Table 16/11	23	29	12	28	355	12	28	410	12	28	470	16	31	525	16	31	585	20
BS4505	Table 25/11	28	310	12	31	370	12	31	430	16	34	490	16	37	550	16			
ANSI B 16.1	Class 125	23	299	8	28	362	12	28	432	12	28	476	12	28	540	16	31	578	16
ANSI B 16.1	Class 250	28	330	12	28	387	16	31	451	16	34	514	20	34	572	20	34	629	24

PERFORMANCE CURVE



DIMENSIONS



Pump Size	Flange		Pump dimensions																				Shaft		Weights (Kg)											
	DN ₁	DN ₂	A ₁	A ₂	D ₃	f	H ₁	H ₂	H ₃	L ₂	L ₃	Z	b ₁	d ₂	m ₁	m ₂	n ₁	n ₂	n ₃	n ₄	s	d ₁	L ₁	pump content	water											
125-80-210			300	300	20	415	315	140	170			340													185	10										
125-80-270	125	80							200	300	715	380	80	17.5	320	270	210	210	170	170	30	35	90	195	15											
125-80-370			330	330					225			450													205	20										
150-100-250			330	330	20	415	335	170	225			390	100	17.5		270	250	250								210	20									
150-100-310	150	100							225	300	715	450	80		320		240	240	200	200	30	35	90	225	25											
150-100-375			370	370					260			520	90	18		272	245	245								245	30									
200-125-230	200	125	370		20	515	400	200	230	365	880	420	80	18	390	340	265	265	225	225	22	30	45	100	250	35										
200-125-290			370	230					460			275													440	275	40									
200-125-365			395	270					520																											
200-125-500			450	310					610																											
200-150-290	200	126	400	400	20	515			245	365	400	490		18.5	390	340	265	265	225	225	30	45	100	350	50											
200-150-360			450	450					300			421	1011				620		23	480				430	320	320	280	280	440	75						
200-150-460			600	500			590	500	300			370	421				1011	740	100						400	400	350	350	650	90						
250-200-320			450	450			20	590	500			240	285				421	1011	570	100				23	480		330	330	280	280	30	55	110	450	80	
250-200-420			500	500									310						620	90							430	325	325	280	280	520	95			
250-200-520	250	200	600	500	25	655	560	300	370	474	1129	740	70	23	480		400	400	350	350	26	65	140	840	115											
250-200-670			650	550	20		600	350	435	472	1127	860	100				400						990	140												
300-250-370	300	250	500	500	20	655	600	300	330	474	1129	640	100	23	480	400	400	400	350	350	35	65	140	665	125											
300-250-480			550			730	600	300	355	526	1256	710																830	145							
300-250-600			650	550		730	630	350	415	526	1256	830			22	600						520								75		1215	180			
300-250-700			700	600		730	630	400	465	515	1245	880																					1270	190		
350-300-300	350	300	550	500	20	655	630	300	360	474	1129	720	120	23	480	400	400	400	350	350	35	65	140	630	100											
400-300-435	650		550	730		670		350	370	526	1255	730		27														75		905	190					
400-300-560	400		700	650	25	808	710		430	595	1403	860	100	26	600	520	525	525	475	475	26	85	170	1425	225											
400-300-700			750			808	750	400	550			960																								
400-300-800			800		600	20	810	800	450	530	585	1395												1010		28										
400-350-360	400	350	650	550	25	730	670	350	415	515	1244	820	100	22	600	520	400	400	350	350	35	75	140	865	160											
450-350-430	450		750			808			465		1403	930																		1285	240					
400-350-510	400		700			810			435		1405	840						28													1395	290				



Distributor

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